



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005



Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134/Pre Cast Slab/2016-17

13.09.2016

TEST REPORT ON CONCRETE CORE (PRE CAST SLAB)

- * Name of Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
- * Name of Agency : Technical Manager, KRIDL, Bangalore.
- * Name of work : Construction of RCC drains in Pipeline road & other roads and Pipeline road either (2) sides and 17th cross BHEL mini colony 1st side Shettyhalli Sub Division, Ward No.13, BBMP, Bangalore.
- * Reference : AEE/SSD/PR/59/2016-17 Dated: 02.09.2016
- Technical Reference : IS:516-1959 (Reaffirmed 2008), SP-24:1983.
- Sample ID : Pre Cast Slab
- Sample received on : 08.09.2016
- Date of Testing : 13.09.2016



Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	80.00	0.394	2508.28	1.60	0.960	32.20	16.40	17.71	17.00	21.25
2	50.00	81.00	0.401	2521.33	1.62	0.965	32.65	16.63	17.96	17.33	21.66
3	50.00	82.00	0.411	2552.69	1.64	0.970	33.60	17.11	18.48	17.93	22.41

*Information is furnished by the Customer/Representative.

Note:

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/Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134/CEMENT/2016-17

Date: 03.09.2016

TEST REPORT ON CEMENT

* CUSTOMER	:	Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
*AGENCY	:	Technical Manager, KRIDL, Bangalore.
*NAME OF THE WORK	:	Construction of RCC drains in Pipeline road & other roads and Pipeline road either (2) sides and 17 th cross BHEL mini colony 1 st side Shettyhalli Sub Division, Ward No.13, BBMP, Bangalore.
*REFERENCE	:	AEE/SSD/PR/59/2016-17 Dated: 02.09.2016
SAMPLE ID	:	Cement - Sample 2
SAMPLE RECEIVED ON	:	02.09.2016
PERIOD OF TESTING	:	02.09.2016 to 03.09.2016



The results of the tests conducted on the cement sample are as follows:

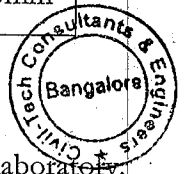
Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	30.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	160 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134/SAND-Gradation/2016-17

: 03.09.2016

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* **Customer** : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

* **Agency** : Technical Manager, KRIDL, Bangalore.

* **Name of Work** : Construction of RCC drains in Pipeline road & other roads and Pipeline road either (2) sides and 17th cross BHEL mini colony 1st side Shettyhalli Sub Division, Ward No.13, BBMP, Bangalore.

Reference : AEE/SSD/PR/59/2016-17 Dated: 02.09.2016

Technical Reference : IS : 2386 Part 1 - 1963 RA-2007

Sample ID : Fine Aggregates - Sample 2

Sample Received on : 02.09.2016

Date of Testing : 03.09.2016



Total Wt. of Aggregates in gms **1000**

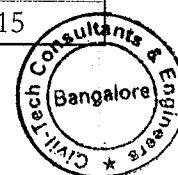
Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	95.40	90-100	90-100	90-100	95-100
2.36	76.20	60-95	75-100	85-100	95-100
1.18	53.90	30-70	55-90	75-100	90-100
600 Micron	24.10	15-34	35-59	60-79	80-100
300 Micron	12.60	5-20	8-30	12-40	15-50
150 Micron	5.60	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134/AGG/GR/2016-17

: 03.09.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* **Customer** : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

* **Agency** : Technical Manager, KRIDL, Bangalore.

* **Name of Work** : Construction of RCC drains in Pipeline road & other roads and Pipeline road either (2) sides and 17th cross BHEL mini colony 1st side Shettyhalli Sub Division, Ward No.13, BBMP, Bangalore.

Reference : AEE/SSD/PR/59/2016-17 Dated: 02.09.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (40mm) -Sample 2

Sample Received on : 02.09.2016

Date of Testing : 03.09.2016



Total Wt. of Aggregates in gms= 7000

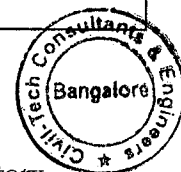
Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.77	95-100	85-100
20	38.87	30-70	0-20
10	16.27	10-35	0-5
4.75	4.47	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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: 03.09.2016

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* **Customer** : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

* **Agency** : Technical Manager, KRIDL, Bangalore.

* **Name of Work** : Construction of RCC drains in Pipeline road & other roads and Pipeline road either (2) sides and 17th cross BHEL mini colony 1st side Shettyhalli Sub Division, Ward No.13, BBMP, Bangalore.

* **Reference** : AEE/SSD/PR/59/2016-17 Dated: 02.09.2016

Technical Reference : IS : 2386 Part 1 -1963 RA-2007

Sample ID : Coarse Aggregates (20mm) - Sample 2

Sample Received on : 02.09.2016

Date of Testing : 03.09.2016



Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	96.82	95-100	85-100
10	30.58	25-55	0-20
4.75	4.48	0-10	0-5

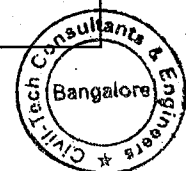
* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

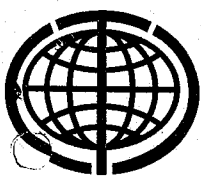
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Job No.: CTCE/BBMP/W.No.13/KRIDL /STEEL/2016-17

06.09.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Technical Manager, KRIDL, Bangalore.

Name of the Work : Construction of RCC drains in Pipeline road & other roads and Pipeline road either (2) sides and 17th cross BHEL mini colony 1st side Shettyhalli Sub Division, Ward No.13, BBMP, Bangalore.

Reference : AEE/SSD/PR/59/2016-17 Dated: 02.09.2016

Date of Test : 06.09.2016

Technical Reference : IS: 1786-2008



Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	8	0.40	510	552	13.10	O.K	O.K

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Job No.: CTCE/BBMP/W.No.13/KRIDL /STEEL/2016-17

06.09.2016

TEST REPORT ON REINFORCEMENT STEEL

Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Agency : Technical Manager, KRIDL, Bangalore.

Name of the Work : Construction of RCC drains in Pipeline road & other roads and Pipeline road either (2) sides and 17th cross BHEL mini colony 1st side Shettyhalli Sub Division, Ward No.13, BBMP, Bangalore.

Reference : AEE/SSD/PR/59/2016-17 Dated: 02.09.2016

Date of Test : 06.09.2016

Technical Reference : IS: 1786-2008



Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm ²	Tensile strength (Ultimate stress) N/mm ²	Elongation percent gauge length		
1	10	0.62	514	557	13.25	O.K	O.K

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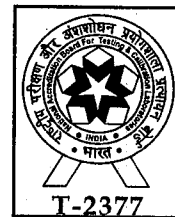
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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134/CUBE/2016-17

13.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
- * Agency : Technical Manager, KRIDL, Bangalore.
- * Name of the work : Construction of RCC drains in Pipeline road & other roads and Pipeline road either (2) sides and 17th cross BHEL mini colony 1st side Shettyhalli Sub Division, Ward No.13, BBMP, Bangalore.
- * Reference : AEE/SSD/PR/59/2016-17 Dated: 02.09.2016
- * Sample ID : RCC Drain Bed Slab Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm²
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- * Grade of Concrete : M₂₀
- Compressive Strength as on : 7th day
- Sample Received on : 13.09.2016



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	06.09.2016	13.09.2016	8.182	330.6	14.69
2	06.09.2016	13.09.2016	8.226	338.9	15.06
3	06.09.2016	13.09.2016	8.310	345.2	15.34

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134/CUBE/2016-17

04.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
- * Agency : Technical Manager, KRIDL, Bangalore.
- * Name of the work : Construction of RCC drains in Pipeline road & other roads and Pipeline road either (2) sides and 17th cross BHEL mini colony 1st side Shettyhalli Sub Division, Ward No.13, BBMP, Bangalore.
- * Reference : AEE/SSD/PR/59/2016-17 Dated: 02.09.2016
- * Sample ID : RCC Drain Bed Slab Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm²
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- * Grade of Concrete : M₂₀
- Compressive Strength as on : 28th day
- Sample Received on : 04.10.2016



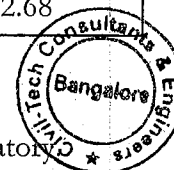
Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	06.09.2016	04.10.2016	8.120	478.3	21.26
2	06.09.2016	04.10.2016	8.290	493.2	21.92
3	06.09.2016	04.10.2016	8.380	510.2	22.68

* Information is furnished by the Customer/Representative

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134/CUBE/2016-17

15.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
- * Agency : Technical Manager, KRIDL, Bangalore.
- * Name of the work : Construction of RCC drains in Pipeline road & other roads and Pipeline road either (2) sides and 17th cross BHEL mini colony 1st side Shettyhalli Sub Division, Ward No.13, BBMP, Bangalore.
- * Reference : AEE/SSD/PR/59/2016-17 Dated: 02.09.2016
- * Sample ID : RCC Drain Side Wall Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm²
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- * Grade of Concrete : M₂₀
- Compressive Strength as on : 7th day
- Sample Received on : 15.09.2016



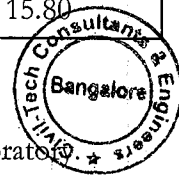
Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	08.09.2016	15.09.2016	8.180	325.4	14.46
2	08.09.2016	15.09.2016	8.290	350.2	15.56
3	08.09.2016	15.09.2016	8.310	355.6	15.80

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06.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * **Customer** : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
- * **Agency** : Technical Manager, KRIDL, Bangalore.
- * **Name of the work** : Construction of RCC drains in Pipeline road & other roads and Pipeline road either (2) sides and 17th cross BHEL mini colony 1st side Shettyhalli Sub Division, Ward No.13, BBMP, Bangalore.
- * **Reference** : AEE/SSD/PR/59/2016-17 Dated: 02.09.2016
- * **Sample ID** : RCC Drain Side Wall Concrete
- Size of cubes** : 150mmx150mmx150mm
- Cross Sectional Area** : 22500 mm²
- Technical Reference** : IS: 516-1959 (Reaffirmed 2008)
- * **Grade of Concrete** : M₂₀
- Compressive Strength as on** : 28th day
- Sample Received on** : 06.10.2016



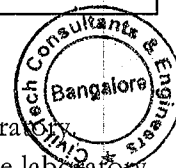
Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	08.09.2016	06.10.2016	8.125	478.3	21.26
2	08.09.2016	06.10.2016	8.293	502.2	22.32
3	08.09.2016	06.10.2016	8.358	513.2	22.81

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134/CUBE/2016-17

16.09.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
- * Agency : Technical Manager, KRIDL, Bangalore.
- * Name of the work : Construction of RCC drains in Pipeline road & other roads and Pipeline road either (2) sides and 17th cross BHEL mini colony 1st side Shettyhalli Sub Division, Ward No.13, BBMP, Bangalore.
- * Reference : AEE/SSD/PR/59/2016-17 Dated: 02.09.2016
- * Sample ID : Drain Covering Slab Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm²
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- * Grade of Concrete : M₂₀



Compressive Strength as on : 7th day

Sample Received on : 16.09.2016

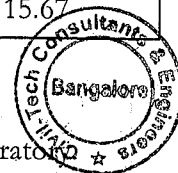
Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	09.09.2016	16.09.2016	8.189	335.6	14.92
2	09.09.2016	16.09.2016	8.290	346.6	15.40
3	09.09.2016	16.09.2016	8.335	352.6	15.67

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-09/134/CUBE/2016-17

07.10.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

- * Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
- * Agency : Technical Manager, KRIDL, Bangalore.
- * Name of the work : Construction of RCC drains in Pipeline road & other roads and Pipeline road either (2) sides and 17th cross BHEL mini colony 1st side Shettyhalli Sub Division, Ward No.13, BBMP, Bangalore.
- * Reference : AEE/SSD/PR/59/2016-17 Dated: 02.09.2016
- * Sample ID : Drain Covering Slab Concrete
- Size of cubes : 150mmx150mmx150mm
- Cross Sectional Area : 22500 mm²
- Technical Reference : IS: 516-1959 (Reaffirmed 2008)
- * Grade of Concrete : M₂₀
- Compressive Strength as on : 28th day
- Sample Received on : 07.10.2016



Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	09.09.2016	07.10.2016	8.125	486.3	21.61
2	09.09.2016	07.10.2016	8.290	493.6	21.94
3	09.09.2016	07.10.2016	8.336	516.3	22.95

* Information is furnished by the Customer/Representative

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

VISHWANATH .C
Quality Manager

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